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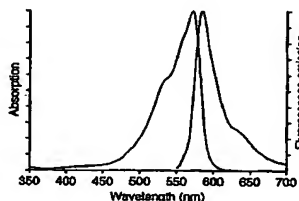
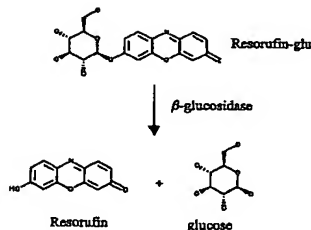
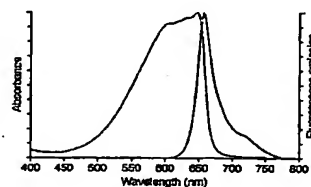
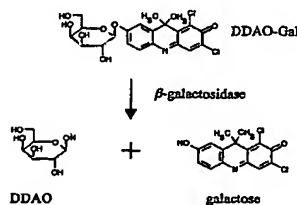
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[Continued on next page]

(54) Title: DETECTING GENE EXPRESSION IN LIVE CELLS USING SHORT-LIVED REPORTERS WITH ENZYMATIC AMPLIFICATION



(57) Abstract: Disclosed herein are compositions and methods for detecting and analyzing both transcriptional and translational events occurring in live cells. In particular, short-lived reporters with enzymatic amplification are described. These reporters have relatively short maturation time and a short cellular lifetime which can be exploited to detect transient events of gene expression in live cells.

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